



Pr11088 - Thrust Type Dismantling Joint with Separate Adapter Studs Technical Note

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References this technical note complements or modifies	WSA 02 WSA Gravity Sewerage Code of Australia – South-East Queensland Service Providers Edition – Version 2.1 (SEQ Sewerage Code) WSA 03–2011-3.1 (SEQ WS&S D&C Code V1.3-2019) Water Supply Code of Australia South-East Queensland Service Providers Edition Version 1.3 (August 2019) (SEQ Water Code) SEQ Code Accepted Infrastructure Products and Materials (IPAM) list

1. Purpose

This technical note has been prepared to provide clarification for use of thrust type dismantling joints for water and sewerage applications.

2. Scope

The scope of this technical note applies to the two types of thrust dismantling joints available. The scope is to clarify:

- If there are specific requirements for the use of each type of thrust dismantling joint; and
- If thrust type dismantling joints can be buried.
- Correspondence provided by Unitywater team members state that dismantling joints with independent flange seal arrangement are not accepted.

Scope Limitation:

- Non-thrust type dismantling joints are not considered.

3. Requirements

The requirements for this Technical Note are to review the use of the two types of thrust type dismantling joints on water and sewerage infrastructure applications by Unitywater. Also to advise if they can be used in buried applications.

4. Rationale

The thrust type dismantling joints are double flanged fittings that can accommodate up to 100 mm longitudinal adjustments. It can be locked at the required length with the tie bars.

There are two types of dismantling joints. One type has the seal flange as part of the restraint assembly. The second type has an independent flange assembly for the seal. Both types of dismantling joints are suitable for all applications and there is no difference in their performance.

The advantages for the independent flange assembly seal are:

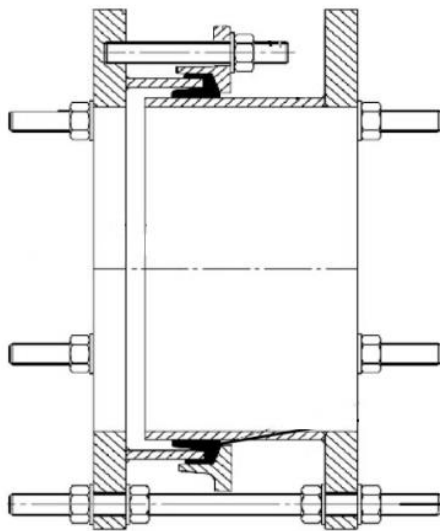
- Long term sealing is ensured in case there are external loads on the dismantling joint.
- The seal assembly can be worked on independently of the thrust restraint assembly.
- The smaller flange and bolts for the seal assembly result in a lighter unit.

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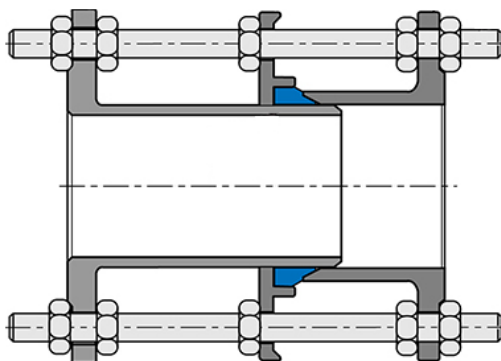
Manufacturers recommendation is to install the dismantling joints above ground or in chambers to prevent contamination of the tie bars threads. An addition preventative measure is to wrap the assembly in Denso wrap.

A common industry practice is to bury valves up to DN 450. Should a thrust type dismantling joint be installed with a buried pipe, it must be protected with Denso wrap to the manufacturer's requirements.

The SEQ Code IPAM for Unitywater does not state any requirements for when or which type of thrust dismantling joint may be used.



Example of thrust flange with independent flange assembly seal



Example of thrust flange with seal as part of restraint



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5. Recommendation

Both types of thrust type dismantling joints can be used. The type to be used should be project specific.

The thrust type dismantling joint with the independent flange assembly for the seal should be considered for conditions where excessive ground movement is expected or not known since the seal can be adjusted independently in the future.

Thrust type dismantling joints may be used in a buried application provided they are Denso wrapped to the manufacturer's requirements.